



(currently amended)

Anaglyphic production method for anaglyphic record, ~~of fixed color channel orientation~~, still or motion, ~~image or text, in color format by either digital or non-digital means in whole or in part~~, where the process of selective color filter treatment and color channel saturation effected below may be effected to each image of said image pair ~~processes effected to said images may be applied~~ in a single sweep, including steps of;

- a. ~~isolating two separate records of image or text and~~ or synchronizing the images of a ~~stereo pair to~~ achieve an image pair; that consists of a first image or images and a second image or images;
- b. effecting selective color filter treatments to the color records of the said image pair ~~first and second images of step a~~; to enable an anaglyphically viewed balance of contrasts ~~from the whole spectrum to be perceived anaglyphically from within the part spectrums of assigned anaglyphic color channel saturations effected below; and enable perception of an anaglyphically viewed contrast balance between the said image pair;~~
- c. effecting spectrally opposing a first anaglyphic color channel saturation saturations applied to the said image pair; ~~first image or images and effecting second and third anaglyphic color channel saturations to the said second image or images resulting in spectrally opposing anaglyphic color channel saturations;~~
- d. blending the said image pair, ~~as a single record so as to reveal equal representations of the said image~~ pair in a resulting in a composite anaglyphic image. ((;))
- ~~e. contrast expansion of the said composite image to optimize contrasts of the anaglyphic color channels contained therein.~~

Claim 2 (currently amended)

Anaglyphic production method as claimed in claim 1 where the said selective color filter treatments are applied either to individual color records or to the entire color records to the nth degree.

Claim 3 (currently amended)

Anaglyphic production method as claimed in claim 1, where the color records of both or either of the said image pair are de-saturated to the nth degree instead of the said selective color filter treatments.

Claim 4 (currently amended)

Anaglyphic production method as claimed in claim 1 where control of increasing the overall brightness is effected by selectively increasing the saturation of the black color records of the image pair to the nth degree and control for decreasing the overall brightness is effected by selectively decreasing the saturation of the black color records of the image pair to the nth degree.

Claim 5 (currently amended)

Anaglyphic production method as claimed in claim 1, where luminosity compression is applied to the said image pair to the nth degree.

Claim 6 (currently amended)

Images, being anaglyphic record produced as claimed in claim 1.

~~Anaglyphic record of fixed color channel orientation produced in accordance with the anaglyphic~~

- production method of claim 1, that may be sent or received on-line, stored and reproduced from a
- recording medium and be sent or received as broadcast that may exhibit;
- a. — printed image perceived stereoscopically as three-dimensional and being monochromatic or
- colored image with balanced contrasts from the whole color spectrum within each anaglyphic
- color channel via color corresponding anaglyphic filters;
- b. — individual color channels of printed exhibit a, being unrelated or interrelated perceived as
- two-dimensional and monochromatic with contrasts from the whole color spectrum via common
- frequency anaglyphic filter;
- c. — monitor or projection display of still or motion anaglyphic record perceived stereoscopically as
- three-dimensional and being monochromatic or colored image with balanced contrasts from the
- whole color spectrum within each anaglyphic color channel via color corresponding anaglyphic
- filters;
- d. — individual color channels of monitor or projection exhibit c, being unrelated or interrelated perceived
- as two-dimensional and monochromatic with contrasts from the whole color spectrum via common
- frequency anaglyphic filter;
- e. — individual color channels of monitor or projection exhibit c, perceived unaided as two-dimensional
- with balanced contrasts from the whole color spectrum via active or passive selective color record
- removal means.

Claim 7 (currently amended)

Apparatus for the screen display of anaglyphic record of ~~fixed color channel orientation~~ as claimed in claim 6, the apparatus comprising;

- a. said anaglyphic record;
- b. — a printing means of color format for the reproduction of said ~~fixed color channels as printed display~~;
- c. — a display medium on which to receive an exposure or print of said color channels
- from said printing means;
- b. ((d.)) a reproduction and display monitor, screen or projection means of color format;
- a monitor or projection screen of color format for the display of said anaglyphic record;
- c. ((e.)) anaglyphic filter viewing gel.

Claim 8 (currently amended)

Modulating anaglyphic image color channel production method where anaglyphic record produced as claimed in claim 1, modulates between anaglyphic display orientations by essentially, alternating or switching the said image pair between color channel saturations ~~anaglyphic display~~ — orientations in a cycle. to establish a modulation.

Claim 9 (currently amended)

Images, being modulating anaglyphic image produced as claimed in claim 8.
 Modulating anaglyphic color channels produced as claimed in claim 8 that may be sent or
 — received on-line, stored and reproduced from a recording medium and be sent or received as broadcast,
 — that may exhibit a monitor or projection screen display of;

- ~~a. still or motion interrelated image or text perceived stereoscopically as three dimensional with balanced contrasts from the whole color spectrum either as monochromatic or as full color record simultaneously and continuously by both eyes from a multiplex of color image planes contained in modulating anaglyphic color channels via synchronized and color corresponding electro-optic/anaglyphic means;~~
- ~~b. still or motion image from either visual channel of still or motion exhibit a, being unrelated or interrelated perceived unaided as two dimensional with contrasts from the whole color spectrum either as monochromatic or as full color record simultaneously and continuously by both eyes from a multiplex of color image planes contained in a modulating anaglyphic color channel via active or passive modulating color record removal synchronous with a selected modulating color channel.~~

Claim 10 (currently amended)

Apparatus for the display of modulating anaglyphic image ~~color channels as claimed in claim 9,~~
the apparatus comprising;

- a. said modulating anaglyphic image ~~color channels;~~
- b. a first power supply enabling a signal detection means to detect ~~for the detection of~~ synchronizing signals from said image ~~part a;~~ for the transmission means of ~~part c;~~ ((e,)) ~~and the switching logic means of part e;~~
- ~~c. a switching logic means that responds to the signal detection means of part b, to produce a synchronized voltage selection for the modulating color record removal means of part i;~~
- g. ((d.)) a reproduction and display monitor, screen or projection means of color format.((;)) ~~for the reproduction and display of said modulating anaglyphic color channels;~~
- c. ((e.)) a transmission means for the transmission of said signals ~~representing synchronizing signals~~ to a receiving means of part d, ((f,)) incorporated with electro-optic/anaglyphic viewing filters of part g; ((h;))
- d. ((f.)) a second power supply enabling a receiving means to receive said ~~transmitted signals from said transmission means for delivery to~~ a switching logic means of part e; ((g;))
- e. ((g.)) a ~~second~~ switching logic means, that responds to said signals ~~from the receiving means of part f;~~ that ~~selects trigger voltages for the synchronisation of electro-optic/anaglyphic filter presentations of part f;~~ ((h,)) with said image displayed on reproduction and display part g; ~~modulating anaglyphic color channels;~~
- f. ((h)) electro-optic/anaglyphic filter means ~~filters~~ consisting of a pair of electro-optic color modulating filter elements that respond to the switching logic of part e. ((g,)) and present transitions between anaglyphically opposing hues;((.))
- ~~i. an active or passive modulating color record removal means that effects a modulating cycle of color removal synchronous with either selected modulating anaglyphic color channel to isolate an opposing modulating anaglyphic color channel for unaided two dimensional perception.~~

Claim 11 (currently amended)

~~Printed~~ anaglyphic/lenticular production method, manual or automated, for the production of multiple concurrent and interactive still or motion printed anaglyphic visual channels, ~~in color format on a printed display medium where said medium may be integral with a horizontally oriented lenticular lens array, including steps of;~~

- a. an anaglyphic production method ~~as claimed in claim 1,~~ applied to multiple image pairs resulting in multiple anaglyphic images; ~~of fixed viewing orientation;~~

- b. horizontally interpolating the anaglyphic images of step a, at a frequency such that the interpolated representations of each of the anaglyphic images are specific to horizontal zones that correspond to an array of horizontally oriented lenticular lenses; ~~fit under each corresponding horizontally oriented lenticular lens of step e;~~
- ~~e. delivering the interpolated anaglyphic images of step b, to a printing means of step d;~~
- ~~d. printing the said interpolated anaglyphic images onto said display medium as printed anaglyphic record;~~
- ~~e. securing the printed anaglyphic record of step d, under said lenticular lens array.~~
- c. printing the interpolated anaglyphic images of step b, onto a medium displayed integrally with a horizontally oriented lenticular lens array.

Claim 12 (currently amended)

Images, being printed anaglyphic/lenticular image produced as claimed in claim 11.

- ~~Printed anaglyphic/lenticular image display produced in accordance with the production methods as claimed in claim 11, that may be sent or received on-line and stored and reproduced from a recording medium where the anaglyphic images exhibit;~~
- ~~a. multiple records of unrelated image or text perceived two dimensionally with contrasts from the whole spectrum from within either anaglyphic color channel via common filter anaglyphic means;~~
 - ~~b. multiple records of interrelated image or text specific to each color channel displaying two concurrent two dimensional records of motion perceived with contrasts from the whole spectrum via common frequency anaglyphic filter;~~
 - ~~c. multiple unrelated stereoscopic views perceived horizontally vertically or diagonally as monochromatic or as colored images with balanced contrasts from the whole color spectrum from both anaglyphic color channels via color corresponding anaglyphic filters;~~
 - d. multiple interrelated stereoscopic views of concurrent horizontal, vertical and diagonal parallax and motion perceived as monochromatic or as colored images with balanced contrasts from the whole spectrum from both anaglyphic color channels via color corresponding anaglyphic filters.

Claim 13 (currently amended)

Apparatus for the display of anaglyphic/lenticular image images as claimed in claim 12,

~~the apparatus comprising of;~~

- a. said anaglyphic/lenticular images;
- b. ~~lenticular sheet consisting of an array of lenticular lenses of suitable pitch or frequency that enable an interactive visual channelling of said images, from a display medium of part d, integral contiguous with it's underside, via refraction;~~
- c. a printing means, of color format; ~~for the reproduction of anaglyphic color channels;~~
- d. a display medium for a print or exposure of said anaglyphic/lenticular image; ~~on which to receive said images from the printing means of part c where said medium may be integral with said lenticular sheet;~~
- e. anaglyphic filter viewing gel.

Claim 14 (currently amended)

Quadrascopic/anaglyphic image production method for fixed or modulating color channel display, ~~digital or~~

~~non-digital in whole or in part~~, for the concurrent and interactive display of four separate visual channels of image or text from one image signal, comprising steps of;

- a. isolating two image pairs being either unrelated or interrelated;
- b. alternating or switching said modulating the two image pairs between two or more the color channel orientations of an anaglyphic production method at any rate selected including no alternation, modulation, resulting in first and second anaglyphic records;
- c. interpolating said the first and second anaglyphic records of step b, into one image signal.

Claim 15 (currently amended)

Images, being quadrascopic/anaglyphic image produced as claimed in claim 14.

~~Quadrascopic/anaglyphic image display produced as claimed in claim 14 that may be sent or received~~

~~— on-line, stored and reproduced from a recording medium and sent and received as broadcast,~~

~~— that may exhibit;~~

~~a. monitor or projection screen display of four separate visual channels being anaglyphic record of image~~

~~— or text that may be unrelated or interrelated in whole or in part across horizontal, vertical and diagonal~~

~~— image pair combinations where also combinations of still and motion record and combinations of two~~

~~— and three dimensional record and combinations of monochromatic and full color record and~~

~~— combinations of modulation rate all interrelate, including the full color perception to both eyes~~

~~— simultaneously of concurrent horizontal, vertical and diagonal parallax and motion from a multiplex of~~

~~— color image planes contained within modulating anaglyphic color channels with balanced contrasts from the~~

~~— whole spectrum from one image signal via vertical visual parallax delivery and anaglyphic filter means;~~

~~b. an unaided two dimensional monochromatic or full colored interactive choice of two visual channels~~

~~— from each modulating anaglyphic channel of monitor or projection screen display exhibit a, via refraction~~

~~and active or passive modulating color record removal synchronous with a selected modulating color channel;~~

~~c. printed display of four separate visual channels of anaglyphic record of image or text that may be~~

~~— unrelated or interrelated in whole or in part across configurations between horizontal, vertical~~

~~— and diagonal image pairs and also combinations of two and three dimensional record and combinations~~

~~— of monochromatic and color record including, color perception of concurrent horizontal, diagonal and~~

~~— vertical parallax perceived via refraction and color corresponding anaglyphic filter gel;~~

~~d. the choice between two concurrent and interrelated autostereoscopic programs of horizontal and~~

~~— vertical parallax and motion from one image signal perceived in full color to both eyes simultaneously~~

~~— from a multiplex of color image planes contained within remnant modulating anaglyphic color channels~~

~~— via horizontal visual parallax delivery and active or passive modulating color record removal~~

~~— synchronous with a selected modulating anaglyphic color channel.~~

Claim 16 (currently amended)

Apparatus for the display of quadrascopic/anaglyphic image produced as claimed in claim 15, 12,

~~the apparatus~~ comprising of;

a. said quadrascopic/anaglyphic image;

b. a first power supply enabling a signal detection means to detect ~~for the detection of~~ synchronizing signals from said image part a; for the transmission means of part c. ((d;))

~~c. a reproduction and display means of color format that delivers visual parallax to effect visual channelling;~~

- c. ((d.)) a transmission means for the transmission of said synchronizing signals to a receiving means of part d. ((e.)) incorporated with electro-optic/anaglyphic viewing filters of part f. ((g.))
- d. ((e.)) a second power supply enabling a receiving means to receive said transmitted signals for ~~delivery~~ to a switching logic means of part e. ((f.))
- e. ((f.)) a switching logic means that responds to said signals ~~from the receiving means of part e, that selects trigger voltages~~ for the synchronization of electro- optic/anaglyphic filter presentations of part f. ((g.)) with said quadrascopic/anaglyphic image displayed on reproduction and display part g;
- f. ((g.)) electro-optic/anaglyphic filter ~~anaglyphic filter~~ means consisting that may consist of a pair of electro-optic color modulating filter elements that respond to the switching logic of part e. ((f.)) and present transitions between anaglyphically opposing hues.
- g. a reproduction and display monitor, screen or projection means of color format that delivers vertical visual parallax to effect upper and lower visual channelling of said quadrascopic/anaglyphic image.

Claim 17 (currently amended)

Autostereoscopic quadrascopic/anaglyphic production method, for a choice between two autostereoscopic programs of fixed or modulating color channel display from one image signal, comprising steps of;

- a. effecting the quadrascopic/anaglyphic image production method as claimed in claim 14, where said ~~two isolated~~ image pairs consist of two left views for a first pair resulting in a first anaglyphic record and two right views for a second pair resulting in said quadrascopic/anaglyphic image; a second anaglyphic record;
- ~~b. interpolating the first and second anaglyphic records of step a, into one image signal;~~
- c. displaying the said remnant color channel image signal onto a color reproduction and display on a reproduction and display monitor, screen or projection means that delivers horizontal visual parallax to effect left and right visual channelling. ~~of the said anaglyphic records;~~
- b. ((d.)) effecting a selective active or passive color record removal, or a modulating cycle of color record removal from said quadrascopic/anaglyphic image that corresponds to a color channel, to isolate a remnant color channel containing left and right visual channels;
~~from the said anaglyphic records to enable an autostereoscopic perception of remnant color records from the image display of step c.~~

Claim 18 (currently amended)

Apparatus for the display of autostereoscopic quadrascopic/anaglyphic image ~~produced as claimed in claim 17~~, comprising of;

- a. said autostereoscopic quadrascopic/anaglyphic image;
- b. a first power supply means enabling a signal detection means to detect ~~for the detection of~~ synchronizing signals from said image, for a switching logic means of part c;
- c. a switching logic means that responds to the signal detection means of part b, ~~to produce a synchronized voltage selection~~ for the synchronisation of color record removal means of part d, with said image;
- d. ~~an active or passive~~ a color record removal means that responds to the switching logic of part c, to remove a color record or a modulating cycle of color records; ~~that correspond to and synchronize with a selected color channel or cycle of modulating anaglyphic color channels, that contain one or more visual channels;~~
- e. a reproduction and display monitor, screen or projection means of color format that delivers horizontal

visual parallax to effect left and right visual channelling.

Claim 19 (currently amended)

Quadrascopic/strobe production method, for still or motion display of four visual channels where the anaglyphic production of the ~~Quadrascopic/anaglyphic image production method~~ of claim 14, 12, is bypassed resulting in a sequential strobe of two left images and two right images.

including steps of;

- a. ~~isolating two left images as a left image pair and two right images as a right image pair;~~
- ~~b. interpolating a field rate selection of two left and then two right images from said left and right image pairs.~~

Claim 20 (currently amended)

Images, being quadrascopic/strobe image produced as claimed in claim 19.

- ~~Quadrascopic/Strobe image display produced as claimed in claim 19 that may be sent or received on-line, stored and reproduced from a recording medium and be sent or received as broadcast that may exhibit;~~
- ~~an interactive choice between four separate visual channels of image or text that may be unrelated or interrelated in whole or in part across horizontal, vertical and diagonal image pair combinations and where also combinations of two and three dimensional record and combinations of still and motion record and combinations of monochromatic and full color record and combinations of modulation rates all interrelate, including the interactive choice between two concurrent and interrelated stereoscopic programs of horizontal, vertical and diagonal parallax and motion from one image signal perceived in full color to both eyes from an alternating left-right sequential strobe display via vertical visual parallax delivery and synchronous electro-optic/shutter glasses.~~

Claim 21 (currently amended)

Apparatus for the display of quadrascopic/strobe image ~~produced as claimed in claim 20~~, comprising of;

- a. said quadrascopic/strobe image;
- b. a first power supply means enabling a signal detection means to detect ~~for the detection of~~ synchronizing signals from said image for transmission part c; ((d;))
- g. ((c;)) a reproduction and display monitor screen or projection means that delivers vertical parallax ~~so as to effect~~ an upper and lower visual channelling. ~~of said image;~~
- c. ((d;)) a transmission means for the transmission of said signals to a receiving means incorporated with electro-optic/shutters of part f; ((g;))
- d. ((e;)) a second power supply means enabling a receiving means to receive said transmitted signals for ~~their~~ delivery to a switching logic means of part e; ((f;))
- e. ((f;)) a switching logic means for the ~~selection of trigger voltages for the~~ synchronization of electro-optic/shutter presentations of part f; ((g;)) with said image displayed on part g; ((c;))
- f. ((g;)) electro-optic shutters ~~electro-optic/shutter glasses~~ consisting of a pair of electro-optic light valve elements that respond to the ~~trigger voltages of~~ switching logic of step e, ((f)) and present alternations between open and shut states. ~~so that at any instant one light valve is open for view and the other light valve is shut for view.~~

Claim 22 (currently amended)

Apparatus for recording ~~An image isolation means, for the production of anaglyphic images,~~ being a computer or digitiser of images or a stereoscopic camera for still or motion capture of an image pair, having software processing or integrated circuitry components ~~that may also processes externally sourced input signals~~ that effect the anaglyphic production method as claimed in claim 1.

Claim 23 (currently amended)

Apparatus for recording ~~An image isolation means, for the production of anaglyphic images,~~ being a computer or digitiser of images or a stereoscopic camera for still or motion capture of an image pair, having software processing or integrated circuitry components ~~that may also processes externally sourced input signals~~ that effect the modulating anaglyphic ~~color channel~~ production method as claimed in claim 8.

Claim 24 (currently amended)

Apparatus for recording ~~An image isolation means, for the production of anaglyphic images,~~ being a computer or digitiser of images or multiples of stereoscopic camera cameras for still or motion capture of multiple image pairs, having software processing or integrated circuitry components ~~that may also processes externally sourced input signals~~ that effect the ~~printed~~ anaglyphic/lenticular production method as claimed in claim 11.

Claim 25 (currently amended)

Apparatus for recording ~~An image isolation means, for the production of anaglyphic images,~~ being a computer or digitiser of images or a quadrascopic camera for still or motion capture of image pairs, having software processing or integrated circuitry components ~~that may also processes externally sourced input signals~~ that effect the quadrascopic/anaglyphic ~~image~~ production method as claimed in claim 14.

Claim 26 (currently amended)

Apparatus for recording ~~An image isolation means, for the production of anaglyphic images,~~ being a computer or digitiser of images or a quadrascopic camera for still or motion capture of image pairs, having software processing or integrated circuitry components ~~that may also processes externally sourced input signals~~ that effect the autostereoscopic quadrascopic/anaglyphic production method as claimed in claim 17.

Claim 27 (currently amended)

Apparatus for recording ~~An image isolation means, for the production of anaglyphic images,~~ being a computer or digitiser of images or a quadrascopic camera for still or motion capture of image pairs, having software processing or integrated circuitry components ~~that may also processes externally sourced input signals~~ that effect the quadrascopic/strobe production method as claimed in claim 19.

Claim 28 (new)

Anaglyphic production method as claimed in claim 1 where contrast expansion is effected to said composite anaglyphic image to optimize contrasts of anaglyphic color channels contained therein.

Claim 29 (new)

Apparatus for the printed display of anaglyphic record as claimed in claim 6, the apparatus comprising;

- a. said anaglyphic record;
- b. a printing means of color format;
- c. a display medium on which to receive an exposure or print of said anaglyphic record;
- d. anaglyphic viewing gel.

Claim 30 (new)

Images, being autostereoscopic quadrascopic/anaglyphic image produced as claimed in claim 17.